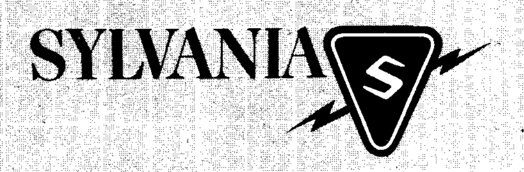


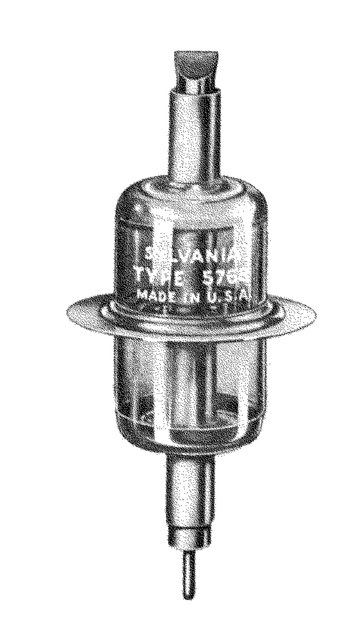
engineering data service

SYLVANIA

5768

QUICK REFERENCE DATA

The Sylvania Type 5768 is a high mu planar triode designed primarily for operation as a grounded grid cw amplifier in the 1000-3000 mc range.



MECHANICAL DATA

Maximum Overall Length	2-7/16 Inches
Maximum Overall Diameter	1.005 Inches

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	400 Ma

DIRECT INTERELECTRODE CAPACITANCES (Max.)

Grid to Plate	1.40 μμf
Grid to Cathode	2.00 μμf
Plate to Cathode	0.15 μμf

RATINGS (Absolute Values)

Plate Voltage	350 Volts	Max.
Plate Dissipation	4 Watts	Max.
Operating Frequency	3000 Mc	Max.
Maximum Seal Temperature	175° C	

CHARACTERISTICS

Conditions: (E_b=180 volts dc, R_k=400 ohms)

Plate Current	4.0 Ma
Transconductance	4500 μmhos
Amplification Factor	85

TYPICAL OPERATION

Grounded Grid Amplifier, 3000 mc

Plate Voltage	150 Volts
Plate Current	7.0 Ma
Cathode Resistor	100 Ohms
Power Gain	5 DB

APPLICATION DATA

The Sylvania Type 5768 is designed for service as a grounded grid amplifier at frequencies up to 3000 mc and may be used with a tuned or untuned input and tuned coaxial line output. Frequency ratios of about 4 to 1 (250-1000 mc) for continuous tuning can be obtained up to 1000 mc with no dead spots throughout the range. Ratios of about 3 to 1 can likewise be obtained up to 3300 mc.

The Sylvania Type 5768 planar triode features a stretched, parallel-wire grid that results in stable, uniform operation; a unique cathode design that minimizes discontinuities in the cathode structure; and a disc-seal type of construction that satisfies the requirements for low lead inductance. The mechanical configuration provides maximum isolation between input and output circuits.

SYLVANIA ELECTRIC PRODUCTS INC.
ELECTRONICS DIVISION
WOBURN, MASS.

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OUTLINE DRAWING

